



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/707,702	11/07/2000	Paul W. Dent	1280.00272 9559	
75	90 06/21/2005		EXAMINER	
David E Bennett			CHEN, SHIN HON	
COATS & BEN	NETT			
1400 Crescent Green			ART UNIT	PAPER NUMBER
Suite 300			2131	
Cary, NC 27511			DATE MAILED: 06/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Ampliantian Na	1.4				
	Application No.	Applicant(s)				
Office Action Summers	09/707,702	DENT ET AL.				
Office Action Summary	Examiner	Art Unit				
7	Shin-Hon Chen	2131				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) o vill apply and will expire SIX (6) MONTHS fro cause the application to become ABANDO	timely filed  lays will be considered timely.  om the mailing date of this communication.  NED (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 04 Ap	<u>oril 2005</u> .					
2a) This action is <b>FINAL</b> . 2b) This	action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 51-53,56-66,73,76-84,88,91-98 and 1 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 51-53,56-66,73,76-84,88,91-98 and 1	vn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)	·	·				
1) Notice of References Cited (PTO-892)	4) Interview Summa	ıry (PTO-413)				
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date  S. Patent and Trademark Office	Paper No(s)/Mail					

AIT OIII. 2131

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 51-53, 56-62, 73, 76-79, 88, and 91-94, drawn to communication system using cryptography with pseudo-random sequence scrambling, classified in class 380, subclass 268.
  - II. Claim 63-66, 80-84, 95-98, and 104-106, drawn to particular authentication technique involving particular multiplication or exponentiation circuit, classified in class 713, subclass 174.

The inventions are distinct, each from the other because of the following reasons:

Group 1 discloses using selected bit positions randomly distributed over a binary indicator to perform calculation in a communication system.

Group 2 discloses calculating squares or multiplication of long integer according to a random indicator during communication authentication.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shin-Hon Chen whose telephone number is (571) 272-3789. The examiner can normally be reached on Monday through Friday 8:30am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/707,702

Art Unit: 2131

Page 3

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shin-Hon Chen Examiner Art Unit 2131

SC

VAYAZ SHEIKH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100